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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/516,973	02/29/2000	Jaakko Rautiainen	602.314USW1	1751

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EXAMINER

ZEWDU, MELESS NMN

ART UNIT PAPER NUMBER

2685

DATE MAILED: 03/04/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.
09/516,973

Applicant(s)
Rautialnen

Examiner
Meless Zewdu

Art Unit
2685



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE three MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on _____
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 35 C.D. 11; 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above, claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claims _____ are subject to restriction and/or election requirements.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on Feb 29, 2000 is/are objected to by the Examiner.
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

- 13) ☒ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
- a) ☒ All b) ☐ Some* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☒ Certified copies of the priority documents have been received in Application No. 09/516,973.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- *See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

- 15) ☒ Notice of References Cited (PTO-892) 18) ☐ Interview Summary (PTO-413) Paper No(s) _____
- 16) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 19) ☐ Notice of Informal Patent Application (PTO-152)
- 17) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4 20) ☐ Other: _____

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DETAILED ACTION

1. This action is the first on the merit of the instant application.
2. Claims 1-7 are pending in this action.

Drawings

3. The drawings are objected to because the titles of the figures are placed on the bodes' of the figures, example "radio access part on CCCH" (see on fig. 1). Correction is required.

Content of Specification

4. The disclosure is objected to because of the following informalities: the number "WO 99/12376" at top left and right coroners of all pages of the specification can create confusion with the assigned serial number (09/516,973).
5. The title is not in bold face. Appropriate correction is required.
6. The description as to what applicant's present invention is related to is inappropriate (see page 1, lines 3-4). It has to be a brief description of the general area of endeavor, not a reference to a claim/claims.

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Furthermore, the entire application is not in a proper form, examiner hereunder provides the contents of a standard/acceptable application as reference by applicant.

- (a) Title of the Invention: See 37 CFR 1.72(a). The title of the invention should be placed at the top of the first page of the specification. It should be brief but technically accurate and descriptive, preferably from two to seven words.
- (b) Cross-References to Related Applications: See 37 CFR 1.78 and MPEP § 201.11.
- © Statement Regarding Federally Sponsored Research and Development: See MPEP § 310.
- (d) Reference to a "Microfiche Appendix": See 37CFR 1.96© and MPEP § 608.05.
The total number of microfiche and the total number frames should be specified.
- (e) Background of the Invention: The specification should set forth the Background of the Invention in two parts:
 - (1) Field of the Invention: A statement of the field of art to which the invention pertains. This statement may include a paraphrasing of the

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applicable U.S. patent classification definitions of the subject matter of the claimed invention. This item may also be titled "Technical Field."

(2) Description of the Related Art: A description of the related art known to the applicant and including, if applicable, references to specific related art and problems involved in the prior art which are solved by the applicant's invention. This item may also be titled "Background Art."

(f) Brief Summary of the Invention: A brief summary or general statement of the invention as set forth in 37 CFR 1.73. The summary is separate and distinct from the abstract and is directed toward the invention rather than the disclosure as a whole. The summary may point out the advantages of the invention or how it solves problems previously existent in the prior art (and preferably indicated in the Background of the Invention). In chemical cases it should point out in general terms the utility of the invention. If possible, the nature and gist of the invention or the inventive concept should be set forth. Objects of the invention should be treated briefly and only to the extent that they contribute to an understanding of the invention.

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- (g) Brief Description of the Several Views of the Drawing(s): A reference to and brief description of the drawing(s) as set forth in 37 CFR 1.74.
- (h) Detailed Description of the Invention: A description of the preferred embodiment(s) of the invention as required in 37 CFR 1.71. The description should be as short and specific as is necessary to describe the invention adequately and accurately. This item may also be titled "Best Mode for Carrying Out the Invention." Where elements or groups of elements, compounds, and processes, which are conventional and generally widely known in the field of the invention described and their exact nature or type is not necessary for an understanding and use of the invention by a person skilled in the art, they should not be described in detail. However, where particularly complicated subject matter is involved or where the elements, compounds, or processes may not be commonly or widely known in the field, the specification should refer to another patent or readily available publication which adequately describes the subject matter.
- (i) Claim or Claims: See 37 CFR 1.75 and MPEP § 608.01(m). The claim or claims must commence on separate sheet. (37 CFR 1.52(b)). Where a claim sets forth a plurality of elements or steps, each element or step of the claim should be

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separated by a line indentation. There may be plural indentations to further segregate subcombinations or related steps.

(j) Abstract of the Disclosure: A brief narrative of the disclosure as a whole in a single paragraph of 250 words or less on a separate sheet following the claims.

(k) Drawings: See 37 CFR 1.81, 1.83-1.85, and MPEP § 608.02.

(l) Sequence Listing: See 37 CFR 1.821-1.825.

Claim Rejections - 35 USC § 112

7. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

8. Claims 1-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

For example: “a standard V5 interface” in claim 1,

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“the GSM specification” in claim 2,

“and/or” in claim 2 (see line 20),

“GSM 04.08 4.3.1. standard” in claim 3. Since standards and specifications, like the GSM standard and specification, change over time, there could be different versions for a given standard at a particular time. As such, claiming a standard in such a manner renders claims indefinite. Applicant is advised to provide a specific version for each of the standards in the claim or to drop those standards off of the claims. This includes claims 1-7.

Claim Rejections - 35 USC § 103

9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

10. Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over applicant's admitted prior art (APA) in view of Ho et al. (Ho), (US Patent US 6,314,292 B1).

As per claim 1: a procedure for setting up a call in a wireless local loop, which is based on mobile communication technology and in which terminal units (TU) are connected via a radio link to an access node (AN) and from the access node to a wired network local exchange (LE) via

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a standard V5 interface and in which checking functions consistent with a mobile communication specification are carried out reads on 'APA (see page 1, line 5-page 2, line 31).

However, the APA does not explicitly teach about "to accelerate call setup, checking functions are carried out during voice mode connection of the call" as claimed by applicant. However, in a related field of endeavor, "method and apparatus for enhancing call setup", Ho teaches if an initial channel assignment is determined to be inappropriate to the type of service requested, channel switching is performed at this time and the remainder of the call setup process is then completed at the speed to be used by the mobile station for the actual/voice communication (see the entire document, particularly col. 3, lines 3-31).

Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to modify the wireless local loop system admitted by applicant with Ho's enhanced call setup method and apparatus for the advantage of significantly reducing the call setup delay and blocking probability (see col. 3, lines 32-42).

As per claim 2: please refer to claim 1. **The call setup process** in the prior art includes performing all the necessary functions required for setting up a call.

As per claims 3-7: please refer to claim 1. The DCS, 1800 digital mobile communication system which supports the WLL, as applicant admits is a GSM standard. When this system is modified by Ho's enhanced call setup system, as discussed in the rejection of claim 1, it will still be in consistent with those standards. Otherwise, it won't be able to function within the GSM system.

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Furthermore, adherence to a standard is a necessary requirement for functioning in a system having its own standard.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Meless Zewdu whose telephone number is (703)306-5418. The examiner can normally be reached on week days from 8:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel Hunter, can be reached at (703)308-6732.

Any response to this action should be mailed to:

Commissioner of Patent and Trademarks

Washington, D.C. 20231

Or faxed to:

(703) 872-9314.

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Six Floor (Receptionist).

Any inquiry of a general nature or related to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)306-0377.

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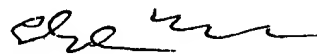
¶ 5.03 Reassignment Affecting Application Location

The Art Unit location of your application in the PTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Art Unit 2684.

Meless Zewdu Mr Z.

Examiner

February 22, 2002.


EDWARD F. URBAN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800